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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

SHEET 1 OF 11

Complete if Known

Application Number: 09/768,413

Filing Date: 1/24/01

First Named Inventor: M. Seul, et al.

Group Art Unit: 1743

Examiner Name:

Attorney Docket Number: PARSE - Con 1

Examiner Initials	U.S. Documents		U.S. Patent Document Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number			
	5,723,233		Gerza et al.	2/1996
	4,806,776		Kley	8/1985
	6,141,046		Roth et al.	10/31/2000
	6,018,350		Lee, et al.	1/25/2000
	6,023,590		Abe, et al.	2/8/2000
	6,026,905		Sussman	2/15/2000
	6,123,263		Feng	9/26/2000
	6,151,062		Inoguchi et al.	11/21/2000
	3,938,525		Cuglia	12/1976
	3,983,182		Hogg	9/1976

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Examiner Initials	Foreign Patent Documents			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation
	Office	Number	Kind Code (if known)			

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Notice of References Cited

Application/Control No.

09/684101PE

Applicant/Inventor

SEUL, MICHAEL et al.

Examiner

Art Unit

1743

Page 2 of 12

U.S. PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY		Classification
A	US-5,747,349	05-1998	van den Engh et al.	436
B	US-5,900,481	05-1999	Lough et al.	536
C	US-6,133,436	10-2000	Koster et al.	536
D	US-6,084,991	07-2000	Sampas	382
E	US-5,442,245	06-1995	Koopal et al.	435
F	US-			
G	US-			
H	US-			
I	US-			
J	US-			
K	US-			
L	US-			
M	US-			

FOREIGN PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
N	WO 99/18434	09/13/99	PCT		
O	WO 99/19515	09/12/99	PCT		
P					
Q					
R					
S					
T					

NON-PATENT DOCUMENTS

*	Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
U	
V	
W	
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Attorney Docket: PARSE - (cont)	Serial No: 6472003
Applicant: Seul et al	
Filing Date: 1/24/01	Group Art Unit: 1743

INFORMATION DISCLOSURE CITATION

U.S. PATENT DOCUMENTS

Examiner Initial	Patent Number	Publication Date	Name	Class	Sub-Class	Filing Date
	5,281,370	01/25/94	Asher et al.			
	5,516,635	05/15/96	Ekins et al.			
	5,518,883	05/21/96	Soini			
	5,415,835	05/16/95	Brueck			
	5,604,097	02/18/97	Brenner			
	5,800,992	09/01/98	Fodor			
	6,023,540	02/08/00	Walt et al.			
	6,327,410	12/04/01	Walt et al.			
	6,266,459	07/24/01	Walt et al.			
	6,429,027	08/06/02	Chee et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initial	Patent Number	Publication Date	Country	Class	Sub-Class	Translation
	WO 93/02360	02/04/93	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
	WO 96/03212	02/08/96	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
	1,248,873	01/17/89	Canada			<input type="checkbox"/> Yes <input type="checkbox"/> No
	WO 93/06121	04/01/93	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
						<input type="checkbox"/> Yes <input type="checkbox"/> No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, etc.)

	Materials from Freedom of Information Act pertaining to David R. Walt

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Sheet 4 of 12

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TC 1700
(174)

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): SEUL, Michael et al.

FILING DATE:

4/24/89

GROUP:

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4	4	8	9	0	5	2					
	AA	4	4	8	9	0	5	2	2/12/85	Fuhrer	422	52	8/30/82
	AB	4	8	4	7	5	4	4	3/3/87	Nicoll et al.	438	518	6/25/85
	AC	4	8	2	2	7	4	8	4/18/89	Walt	438	528	6/25/88
	AD	4	9	8	4	3	7	3	2/18/91	Stevanopoulos et al.	435	8	7/20/89
	AE	5	0	0	2	8	6	7	3/28/91	Macevize	435	8	10/24/88
	AF	5	0	2	8	5	4	5	7/2/91	Soni	436	501	6/9/89
	AG	5	1	0	5	3	0	5	4/14/92	Butzig	359	368	1/10/81
	AH	5	1	1	4	8	8	4	5/19/92	Walt	436	528	9/19/89
	AI	5	1	3	2	2	4	2	7/21/92	Chavang	436	501	1/11/89
	AJ	5	1	3	2	0	9	7	7/21/92	Van Deusen et al.	422	8209	9/4/90
	AK	5	1	4	3	8	5	3	9/1/92	Walt	436	501	2/2/89

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
		0	2	8	8	7	6	4					YES	NO
	AL	0	2	8	8	7	6	4	8/8/88	EP	C12Q	1189		X
	AM	0	4	7	8	3	1	8	4/1/92	EP	C12Q	1189		X
	AN	0	7	2	3	1	4	8	7/24/88	EP	G01N	21/64		X
	AO	8	9	1	1	1	0	1	1/1/8/89	PCT	G01N	33/548		X
	AP	9	3	0	2	3	6	0	2/4/93	PCT	G01N	33/538		X

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AG	Peterson, et al. "Fiber optic pH probe for physiological use," Anal. Chem. Vol. 52, 864-869 (1980)
AR	Peterson, et al. "Fiber-Optic Sensors for Biomedical Applications," Science, 13, 123-127 (1984).
AS	Fuh, et al., "Single Fibre Optic Fluorescence pH Probe," Analyst, 112: 1159-1163 (1987).
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Sheet: 5 of 12

FORM PTO-1449
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U.S. DEPARTMENT OF COMMERCE
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ATTY. DOCKET NO.: PARSE -cont

SERIAL NO.: 09/768,443

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): SEUL, Michael

FILING DATE: 1/24/01

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TC 1/16

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA 5 1 8 4 3 0 0	3/15/93	Cheung	427	213.31	11/6/89
	BB 5 2 4 4 8 1 3	8/14/93	Walt et al.	435	172	4/20/87
	BC 5 2 4 4 8 3 6	8/14/93	Walt et al.	422	82.07	1/25/91
	BD 5 2 5 0 2 8 4	10/6/93	Walt et al.	422	82.07	1/21/87
	BE 5 2 5 2 4 9 4	10/12/93	Walt	436	528	3/30/87
	BF 5 2 5 4 4 7 7	10/18/93	Walt	436	172	8/18/91
	BG 5 2 9 8 7 4 1	3/29/94	Walt et al.	250	227.23	1/13/93
	BH 5 3 0 6 6 1 8	4/28/94	Probst et al.	435	8	1/16/92
	BI 5 3 2 0 8 1 4	6/14/94	Walt et al.	422	82.07	1/25/92
	BJ 5 3 8 2 6 6 3	1/18/94	Carr et al.	436	185	5/6/92
	BK 5 4 0 5 7 8 4	4/11/95	Van Hoogendoorn	435	523	2/25/93

FOREIGN PATENT DOCUMENTS

PCT ENTRY DOCUMENTS															
DOCUMENT NUMBER									DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
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	BL	9	3	0	6	1	2	1	4/1/93	PCT		C07H	21/00		X
	BM	8	3	2	4	5	1	7	12/9/93	PCT		C07K			X
	BN	9	7	1	4	0	2	8	4/17/97	PCT		G01H	15/10		X
	BO														
	BP														

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SEP 11 1997

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BQ	Barnard, et al., "A fibre-optic chemical sensor with discrete sensing sites," <i>Nature</i> , vol. 353: 338-340 (1991).
BR	Campan, et al., "Colored and Fluorescent Solid Supports," <i>Innovation and Perspectives in Solid-Phase Synthesis</i> , Ed: E. Birmingham (Mayflower, 1999), pp. 459-472 (1994).
BS	Pope, "Fiber optic chemical microsensor employing optically active silica microspheres," <i>SPIE</i> , vol. 2388: 245-256 (1995).

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Sheet 6 of 12

FORM PTO 1449
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LIST OF PRIOR ART CITED BY APPLICANT

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APPLICANT(S): SEUL, Michael et al

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	CA	5 4 8 9 7 2 3	1/24/01	Kilgus et al.	428	441	5/17/94
	CB	5 8 1 4 5 2 4	8/24/04	Walt et al.	438	518	12/14/95
	CC	5 4 8 8 9 9 3	8/18/98	Papa	250	227.21	3/5/94
	CD	5 5 1 2 4 0 0	4/20/99	Walt et al.	438	171	8/11/94
	CE	5 5 8 5 3 2 4	10/15/98	Sing et al.	435	6	4/13/94
	CF	5 5 8 7 8 2 7	10/13/98	Lafont	436	518	1/15/93
	CG	5 6 3 3 7 2 4	8/27/97	King et al.	358	445	8/29/95
	CH	5 8 3 3 9 7 2	8/27/97	Mori et al.	385	118	1/12/95
	CI	5 8 5 0 4 8 4	7/22/97	Lane et al.	530	334	8/19/91
	CJ	5 8 5 2 0 5 8	7/29/97	Macph	428	403	1/25/99
	CK	5 6 7 4 5 9 8	10/7/97	Zachary et al.	435	792	3/30/94

(FOREIGN PATENT) DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES
CL						
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CN						
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FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.: PARSE-INT		SERIAL NO.: 01763,41	
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT(S): SEUL, Michael		REC-1	
				FILING DATE: 1/24/01		AUG 25 2003 TC 1100	

U.S. PATENT DOCUMENTS													
*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	DA	5	6	9	0	8	9	4	11/25/97	Puckel et al.	422	68.1	5/23/95
	DB	5	7	6	0	8	9	7	12/23/97	Kleiner et al.	526	15	5/30/95
	DC	5	7	7	8	9	7	8	7/14/98	Leland et al.	422	52	6/5/95
	DD	5	9	3	8	0	2	1	8/17/98	Manson et al.	422	55	1/23/97
	DE	5	9	6	1	9	2	3	10/5/99	Nove et al.	422	88.1	8/30/98
	DF	5	9	6	5	4	5	2	10/12/99	Kovacs	438	149	7/8/98
	DG	6	0	4	8	8	8	0	4/11/00	Heiler et al.	435	6	5/14/97
	DH	6	0	9	0	5	4	5	7/18/00	Wohlstadter et al.	435	8	3/6/97
	DI	6	0	9	8	8	1	2	7/18/00	Lebl et al.	530	300	11/23/98
	DJ	8	2	0	0	7	3	7	3/13/01	Web et al.	438	320	8/24/95
	EK												

FOREIGN PATENT DOCUMENTS															
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
														YES	NO
	DL														
	DM														
	DN														
	DO														
	DP														

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
DQ	Epner, et al., "Tagging in combinatorial chemistry: the use of coloured and fluorescent beads," Chem. Commun. pp. 735-736 (1997)
DR	Fulton, et al., "Advanced multiplexed analysis with the FlowMatrix system," Clinical Chemistry, vol. 43:9, pp. 1749-1756 (1997).
DS	Scott et al., "Properties of fluorophores on solid phase resins; implications for screening, encoding and reaction monitoring," Bioorganic & Medicinal Chemistry Letters, 7:12, pp. 1587-1572 (1997).

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FORM PTO-1449
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ATTY. DOCKET NO.:
PARSE-001

SERIAL NO. 1700

09/768,413

LIST OF PRIOR ART CITED BY APPLICANT

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APPLICANT(S): SEUL, Michael

et al.

FILING DATE: 4/24/01

GROUP: 1743

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	EA						
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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	EL						
	EM						
	EN						
	EO						
	EP						

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EQ	Healey et al., "Fiberoptic DNA sensor array capable of detecting point mutations," Analytical Biochemistry, vol. 251, pp. 270-279 (1997).
ER	"Microsphere Selection Guide," Bangs Laboratories, Inc. (Fisher, IN) (September 1998).
ES	

EXAMINER

DATE CONSIDERED

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APPLICANT(S): SEUL, Michael

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*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BA						
BB						
BC						
BD						
BE						
BF						

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
					YES NO
BG					
BH					
BI					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BJ	Yau et al. "Field Induced Layering of Colloidal Crystals," <i>Science</i> , vol. 272 : 705-709 (1995)
BK	Seil et al. "Domain Shapes and Patterns: The Phenomenology of modulated Phases," <i>Science</i> , vol. 267 : 475-483 (1995)
BL	Schene et al. "Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray," <i>Science</i> , vol. 270 : 487-470 (1995)
BM	Heab et al. "Single Molecule Fluorescence Burst Detection of DNA Fragments Separated by Capillary Electrophoresis," <i>Analytical Chemistry</i> , vol. 67 (No. 18) : 3253-3258 (1995)
BN	Richetti, et al. <i>J. Physique Lettr.</i> , vol. 45 : L-1137 to L-1143 (1984)
BO	Sze. "MIS Diode and Charge-Coupled Device," <i>The Physics of Semiconductor</i> , Chapter 7, pp. 382-430 (2nd Edition) (Wiley Interscience 1991)
BP	
BQ	
BR	

EXAMINER

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APPLICANT(S): SEUL, Michael

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	3 8 9 8 5 2 5	12/21/78	Sigala	358	160	08/21/75
	AB	4 0 7 5 0 1 3	02/21/78	Ward et al.	96	1.5	09/13/76
	AC	4 4 5 8 5 1 3	06/28/84	Kawai et al.	204	180	08/25/87
	AD	4 5 7 5 4 0 7	03/11/88	Diller	204	87	10/24/84
	AE	4 5 9 1 5 5 0	05/27/88	Hafeman et al.	435	4	04/05/84
	AF	5 4 4 4 3 3 0	06/22/85	Leventis et al.	313	506	02/18/93
	AG	5 5 8 7 1 2 8	12/24/86	Widling et al.	422	50	11/14/84
	AH	5 4 9 8 3 9 2	03/12/96	Widling et al.	422	68.1	09/19/94
	AI	5 8 5 5 7 5 3	01/05/89	Trau et al.	204	484	11/28/96
	AJ	6 0 3 3 5 4 7	03/07/00	Trau et al.	204	822	01/04/98
	AK						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO
	AL	9 6 0 4 5 4 7	02/15/86	PCT	G01N	27/00	
	AM						
	AN						
	AO						
	AP						

OTHER PRIOR ART (including Author, Title, Date, Persistent Pages, Etc.)

AR	Yeh, et al., "Assembly of ordered colloidal aggregates by electric-field induced fluid flow," <i>Nature</i> , vol. 386, 57-59 (1997)
AS	Gierzig et al., "Formation of ordered two-dimensional gold colloid lattices by electrophoretic deposition," <i>J. Phys. Chem.</i> , vol. 97: 8334-8336
AT	Seul et al., "Scale transformation of magnetic bubble arrays: coupling of topological disorder and polydispersity," <i>Science</i> , vol. 262: 558-560 (1993)

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FORM PTO 1449
REV. 7/85

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U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: 01/268,413

SERIAL NO. 01/268,413

LIST OF PRIOR ART CITED BY APPLICANT

(Use serial number if necessary)

APPLICANT(S): SEUL, Michael

AUG 2 2003

FILING DATE: 6/24/01

GROUP 1700

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4 7 1 7 6 5 5	01/05/88	Fowler	435	7	10/15/84
	AB	5 5 7 3 9 0 8	11/12/98	Singer et al.	435	8	05/20/94
	AC	5 5 8 5 0 6 9	12/17/98	Zarouchi et al.	422	100	11/10/94
	AD	5 5 8 3 8 3 8	01/14/97	Zarouchi et al.	435	6	05/01/95
	AE	5 7 2 3 2 1 8	03/03/98	Haugland et al.	428	402	06/07/95
	AF	5 7 4 4 3 0 5	04/28/96	Foder et al.	435	8	08/05/95
	AG	5 8 0 7 7 5 5	08/15/98	Ekins	436	518	05/23/95
	AH	5 8 3 7 5 5 1	11/17/98	Ekins	436	518	12/23/94
	AI	5 8 7 4 2 1 8	02/23/98	Rave et al.	435	8	04/09/95
	AJ	5 9 8 0 8 3 5	11/23/99	Dunley et al.	435	7.2	02/27/97
	AK	8 0 2 3 5 4 0	02/08/00	Welt et al.	385	12	03/14/97

FOREIGN PATENT DOCUMENTS

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	AL	9 5 1 2 8 8 8	05/11/95	PCT	G01N	21/00		x
	AM	9 6 0 7 9 1 7	03/14/96	PCT	G01N	35/00		x
	AN	9 7 4 0 3 8 3	10/30/97	PCT	G01N	33/543		x
	AO	9 8 0 5 0 0 7	02/12/98	PCT	G03F	7/00		x
	AP	9 8 5 3 3 0 0	11/26/98	PCT	G01N	21/00		x

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	Michelette et al., <i>Logosuit</i> , vol. 11, 3333-3336 (1995)
AS	Nagayama et al., <i>Phase Transitions</i> , vol. 45, 185-203 (1993)
AT	

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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SHEET 1

OF

Application Number: 09/128625

Filing Date: 1/24/01

First Named Inventor: M. Seut et al.

Group Art Unit: 1743

Examiner Name:

Attorney Docket Number: PARSE - Cochrane

Complete if Known

Examin or Initials	U.S. Documents		U.S. Patent Document Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
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